



COMP90049 Knowledge Technologies

Exam Preparation 2019

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Some of slides are derived from Prof Vipin Kumar and modified, <http://www-users.cs.umn.edu/~kumar/>

What we have covered so far

1. Exact String
2. Approximate String Search
3. Information Retrieval, updated
4. Web-scale Information Retrieval

What we have covered so far

- Probability
- Data Mining Fundamentals
- Classification: Naive Bayes/Evaluation
- Decision Trees
- Random Forests
- Geometric Methods
- Clustering
- Association

Topics to prepare

Part 1:

- Need to know how to search for strings using regular expressions.
- Need to know how to compare for similarity of two strings.
- Information retrieval system
- How ranking is done
- What factors can improve precision and recall

Topics to prepare

Part 2:

- Understand various aspects of Data Mining and Machine learning
- Classification –NB; DT; RF; etc. You need to know how to compute everything NB. Need to understand Precision, Recall, Confusion Matrix, etc.
- Association Rule Mining.
- You only need to read understand slides to Apriori Algorithm
- No need to read topic on DNN
- You should know XGBOOST (not covered in the lectures) for learning purpose but not for the exam